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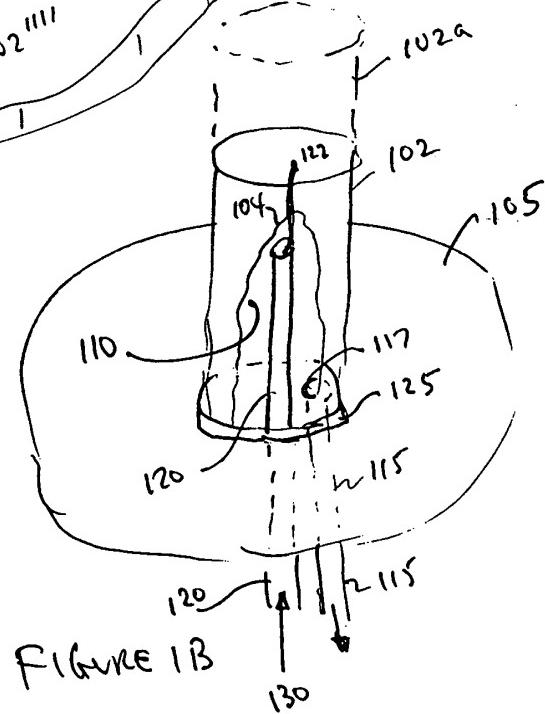
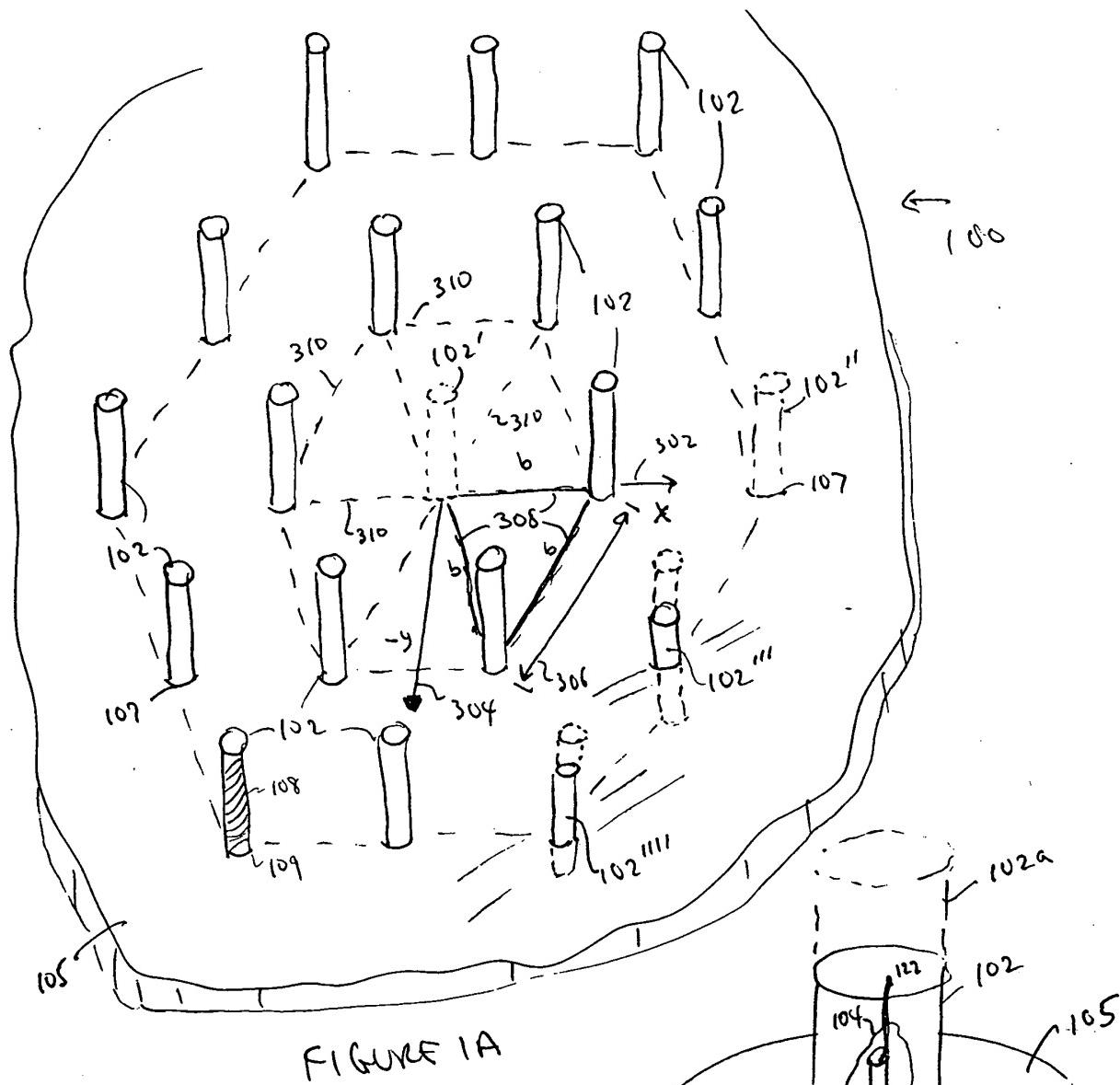
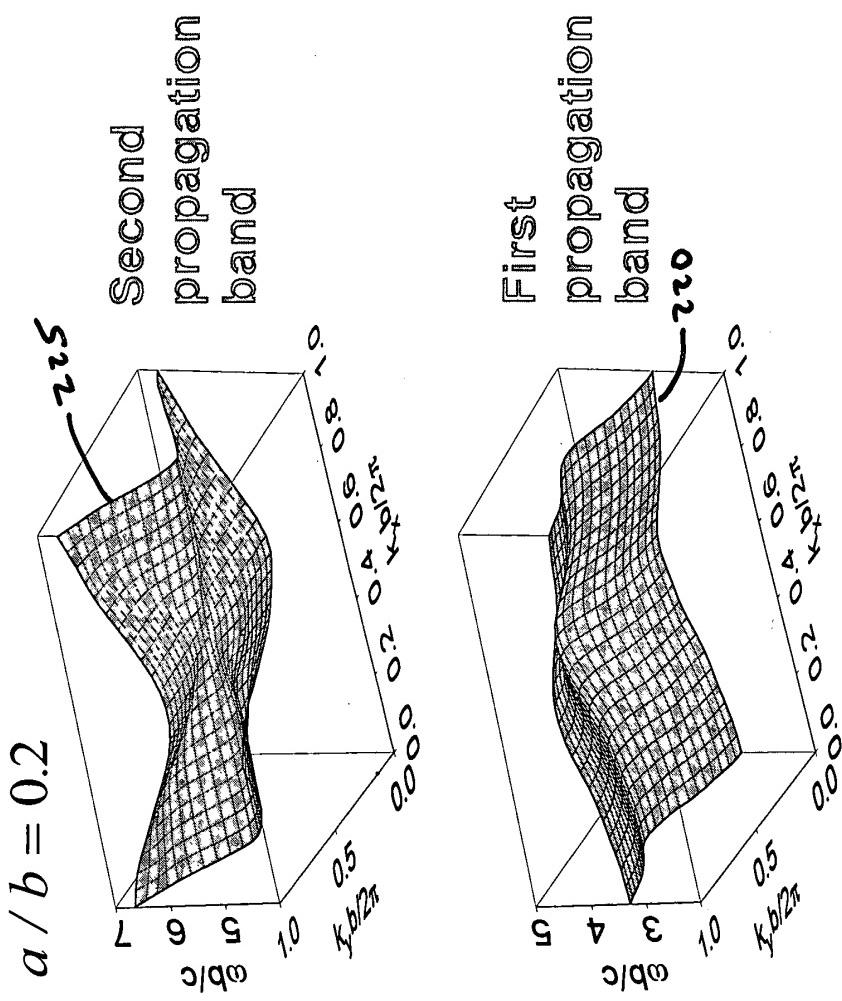
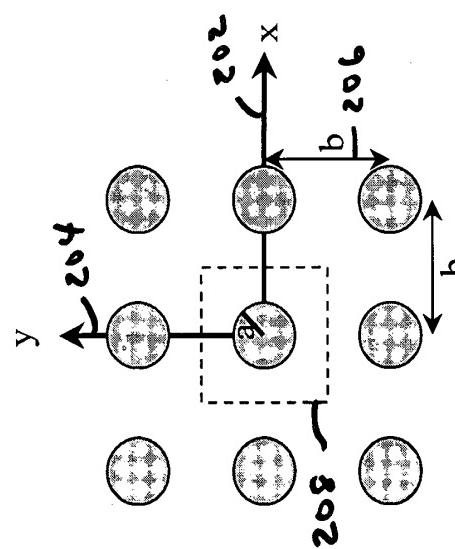


Figure 2B



2003651 - 0402

Figure 2A



Title: Vacuum Electron Device with Photonic Bandgap Structure and Method of Use Thereof
 Inventors(s): Chen et al.
 Serial No.: Not Yet Assigned
 Atty/Agent: Joseph B. Milslein
 Atty/Agent No.: Milt-132 (5473/145)
 Express Mail Labeling Label No.: ELL816677502US

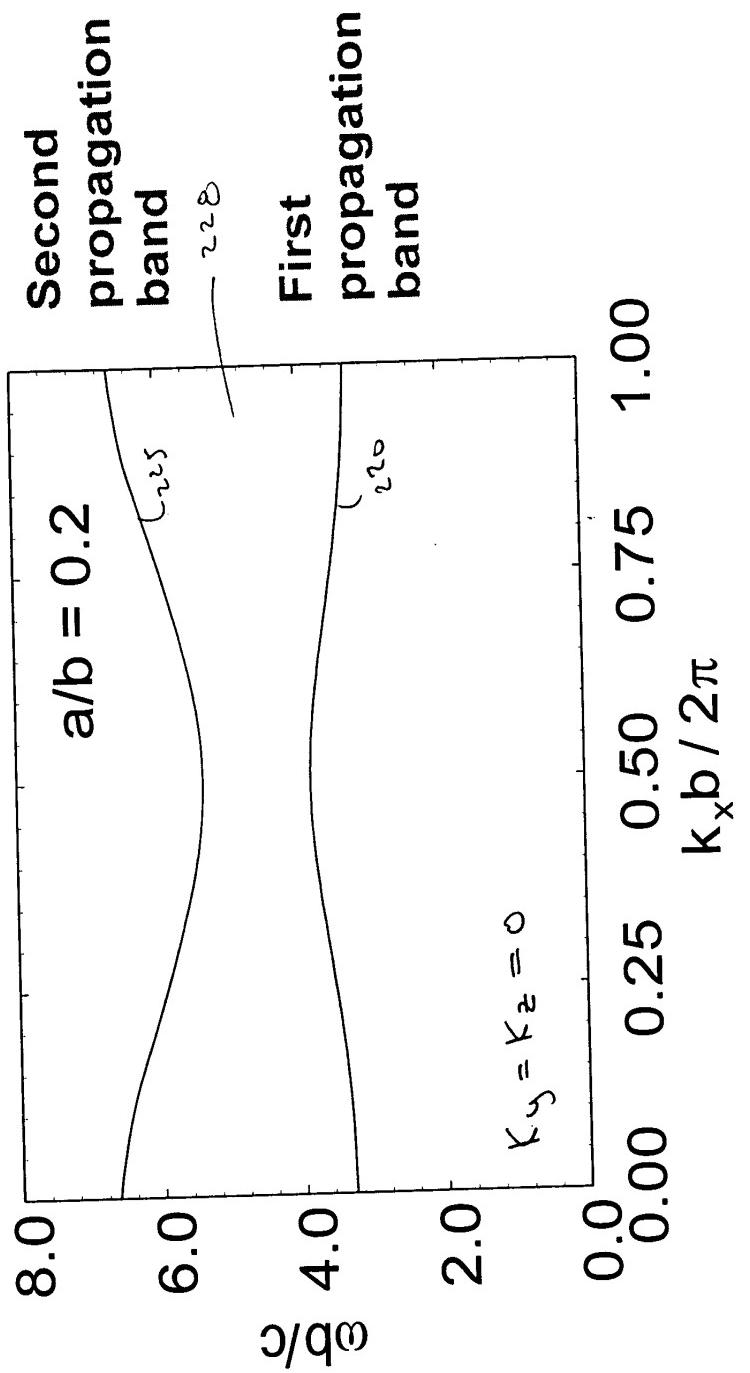


FIGURE 2C

Title: Vacuum Electron Device with Photonic Bandgap Structure and Method of Use Thereof
Inventor(s): Chen et al.
Serial No.: Not Yet Assigned
Priority Date: MIT-132 (5473/145)
Atty/Docket No.: Milt-Joseph B. Milstein
Atty/Agent: Mail Mailbox Label No. E1816677502US
Express Mail Label No. E1816677502US

$$(k_x, k_y, k_z) = (\pi/b, 0, 0)$$

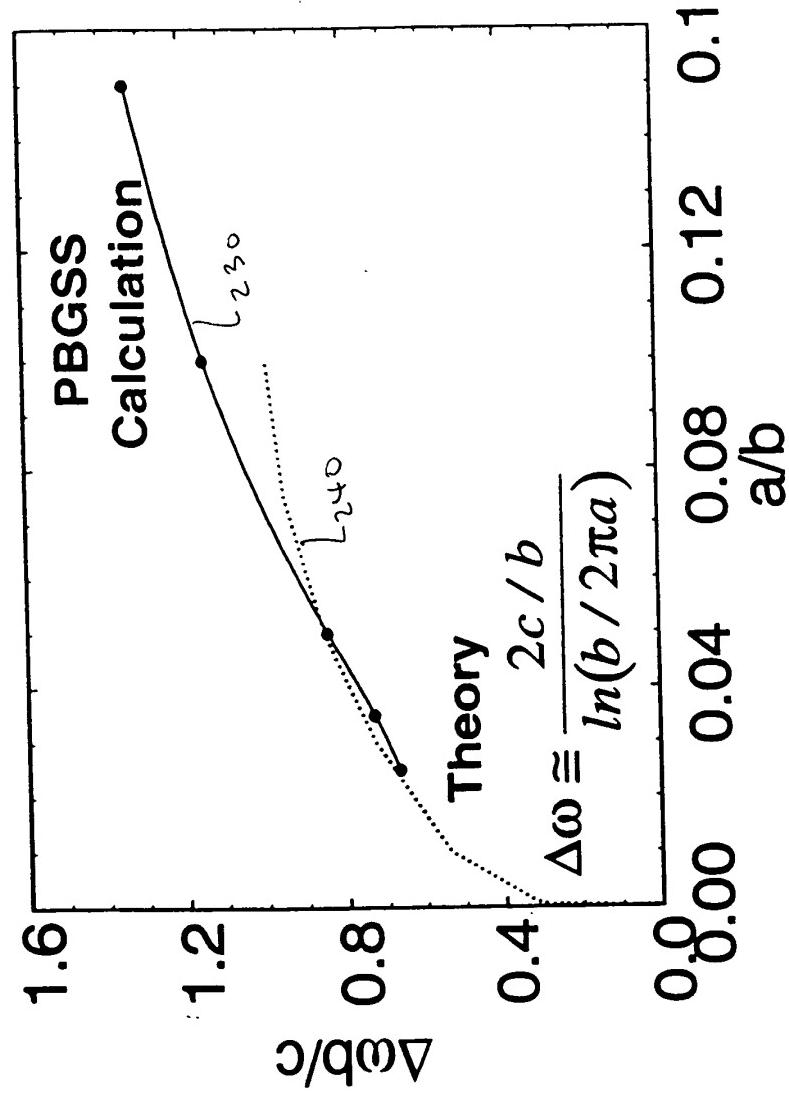


Fig. 2D

Title: Vacuum Electron Device with Photonic
Bandgap Structure and Method of Use Thereof
Inventor(s): Chen et al.
Serial No. Not Yet Assigned
Atty Docket No. MIT-132 (5473/145)
Atty/Agent:Joseph B. Milstein
Express Mail Mailing Label No. EL816677502US

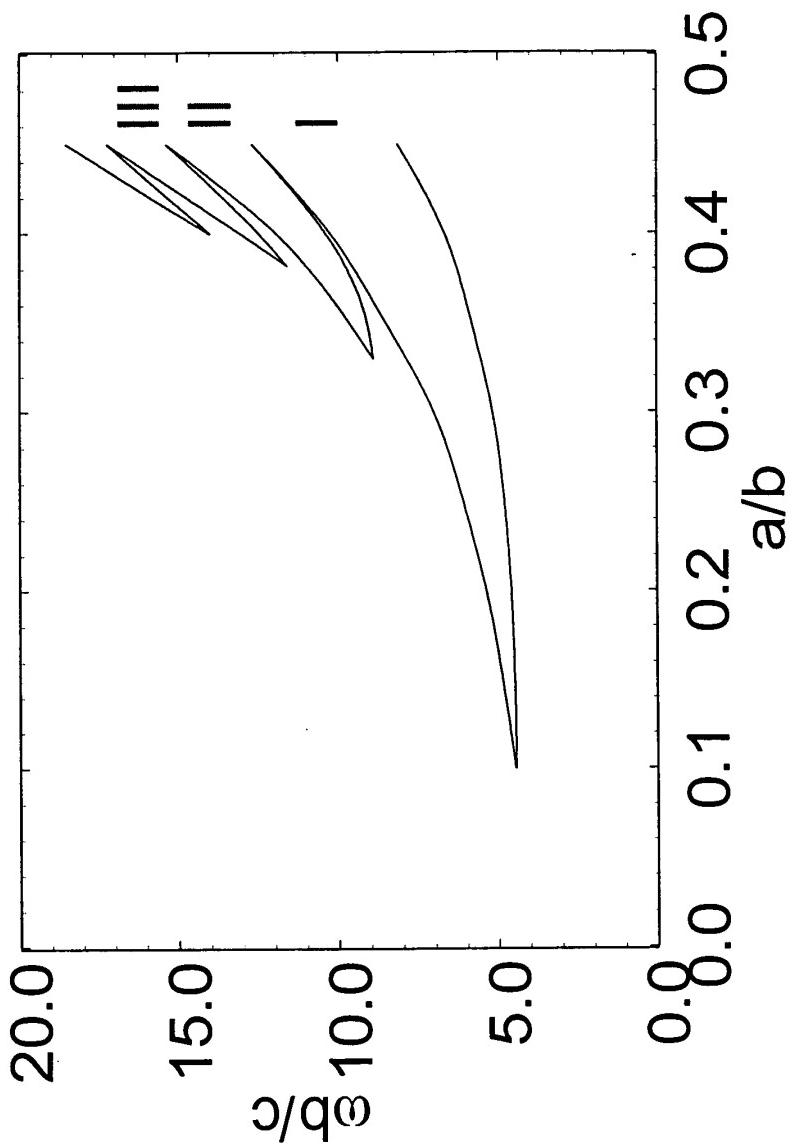


FIGURE 3

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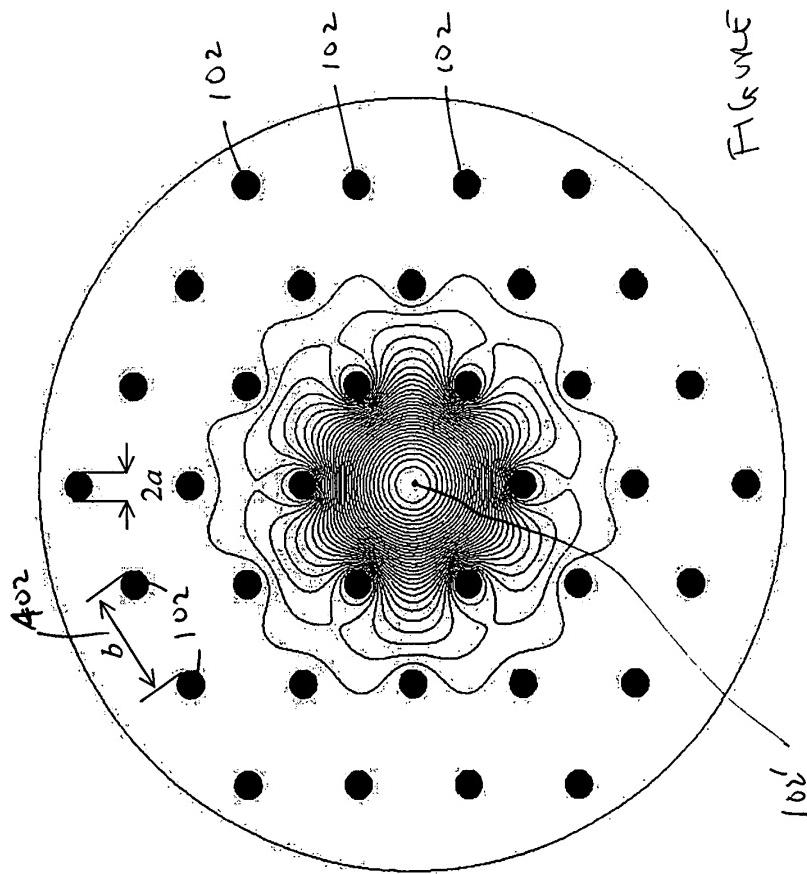


Figure 4B

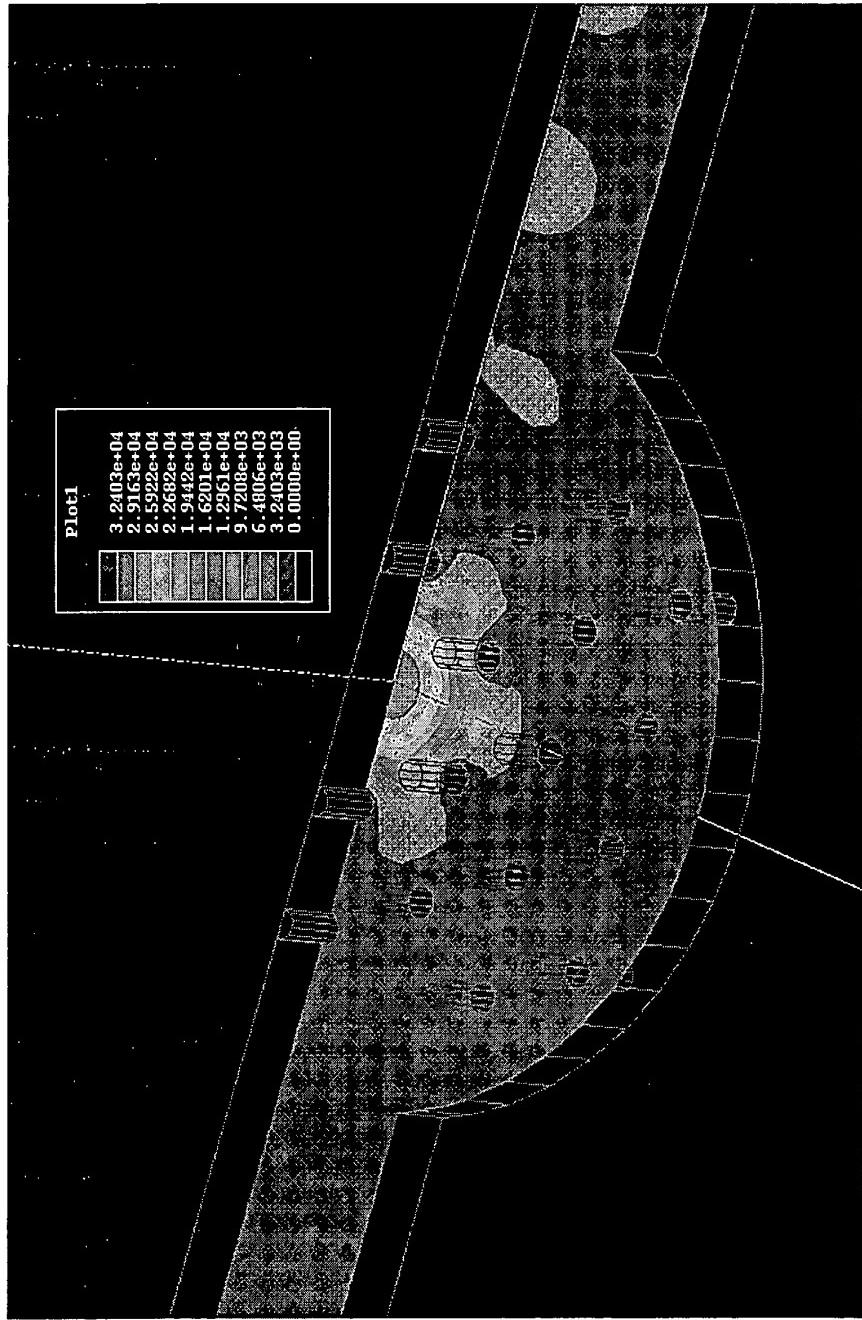
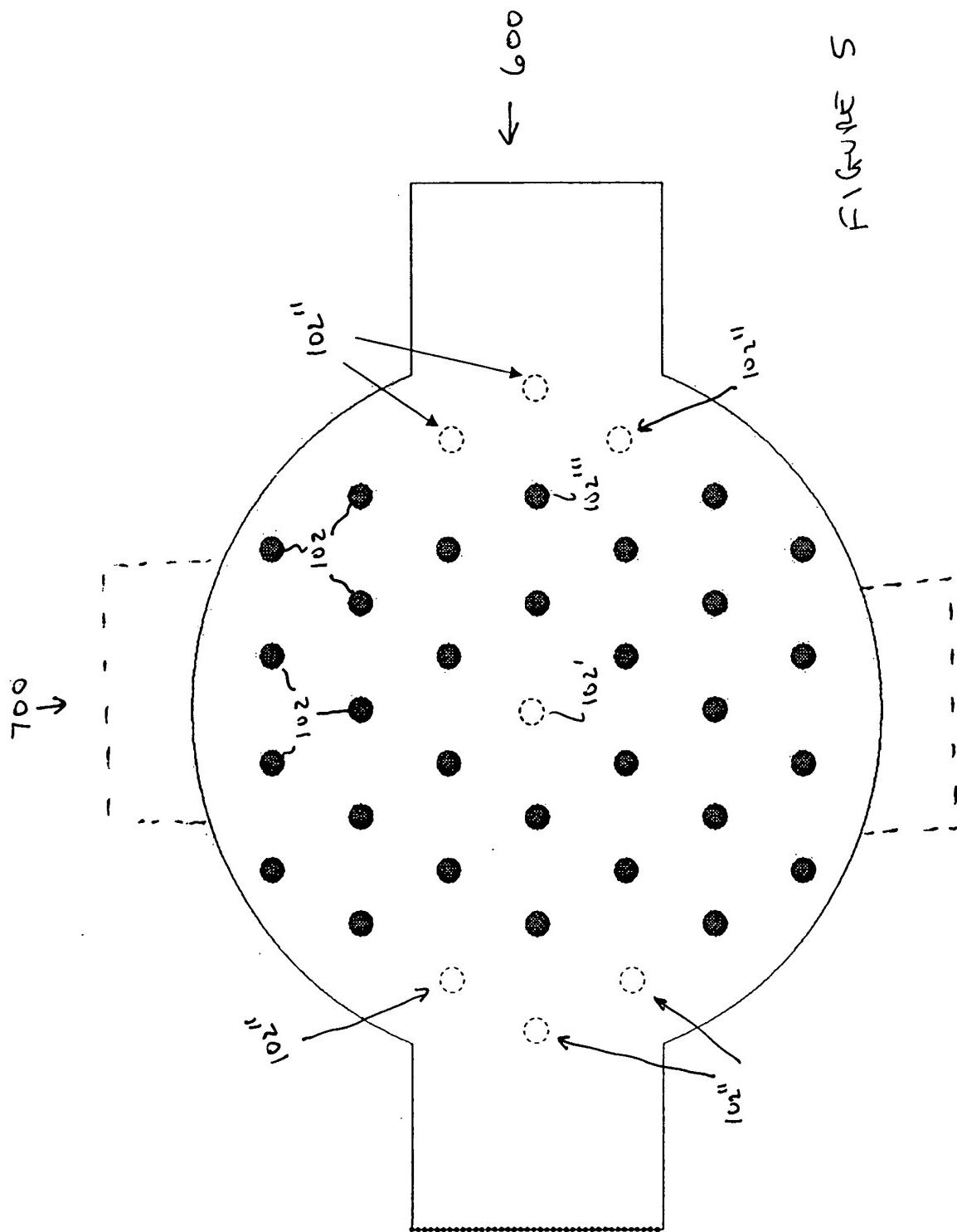


FIGURE 5



2010 IEEE TRANSACTIONS ON ELECTRON DEVICES

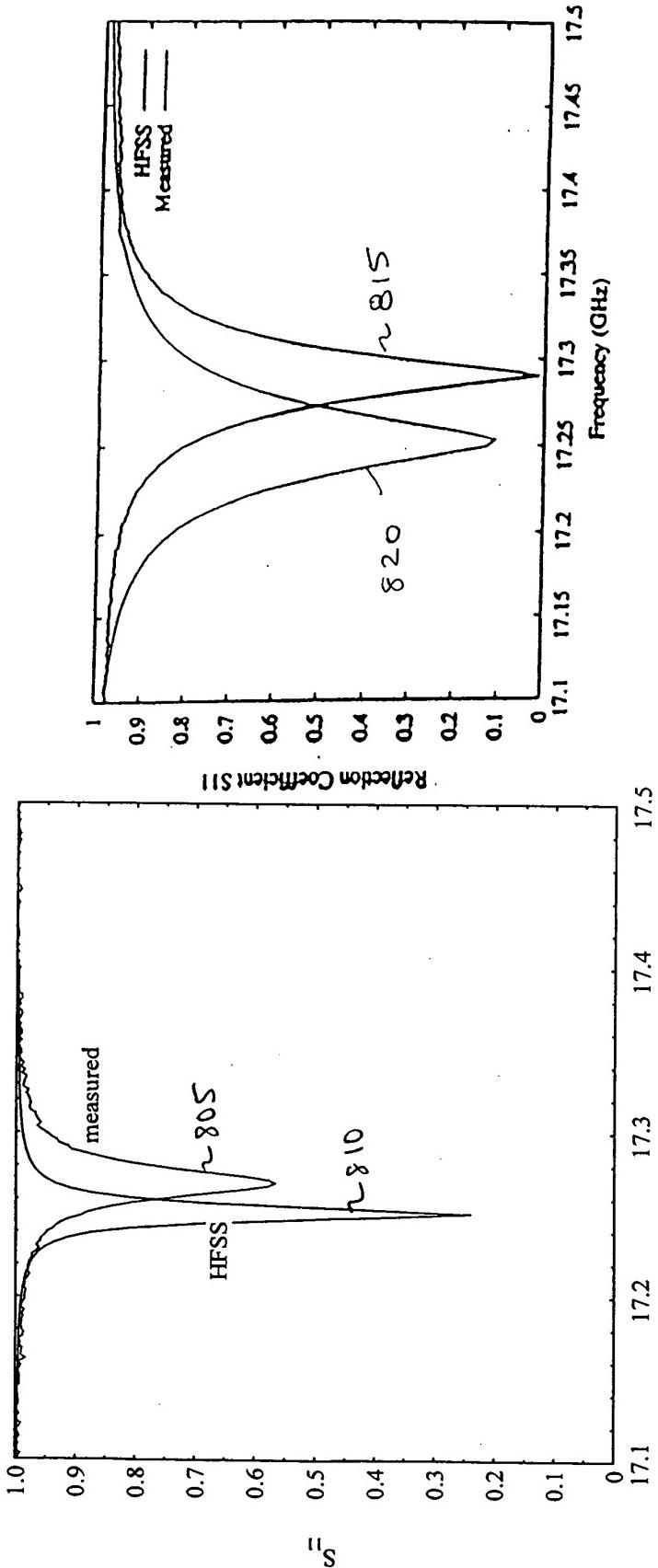


FIGURE 6B

FIGURE 6A

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Atty Docket No. MIT-132 (5473/145)
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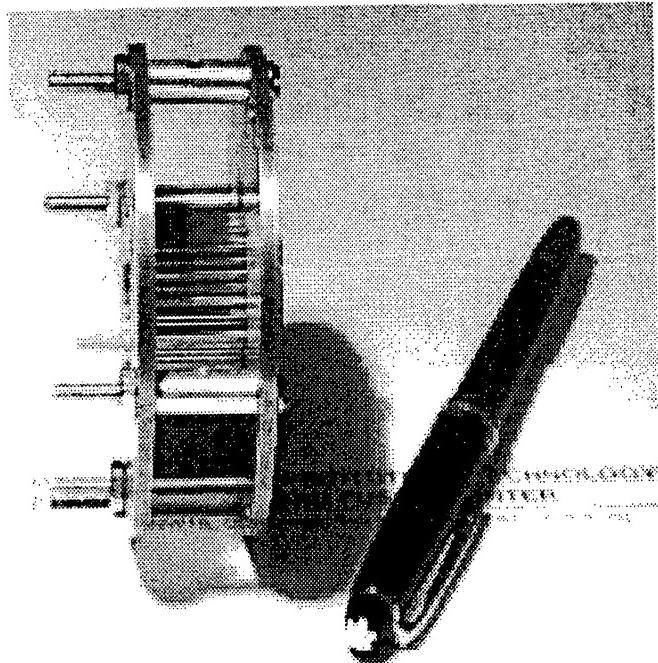


figure 7B



Figure 7A

20140709_145630_001

Title: Vacuum Electron Device with Photonic
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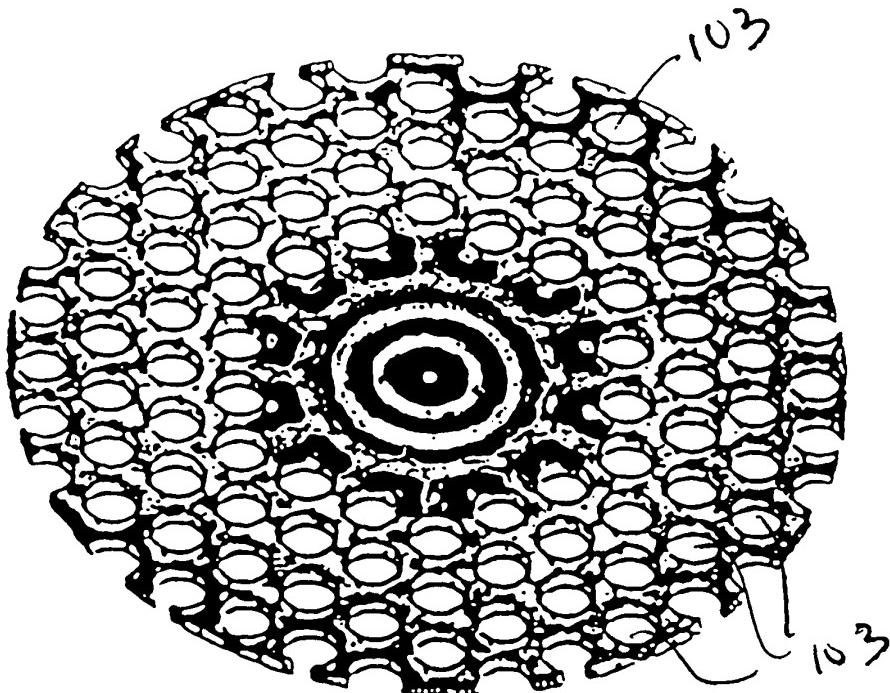


Figure 8A

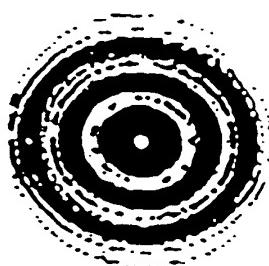
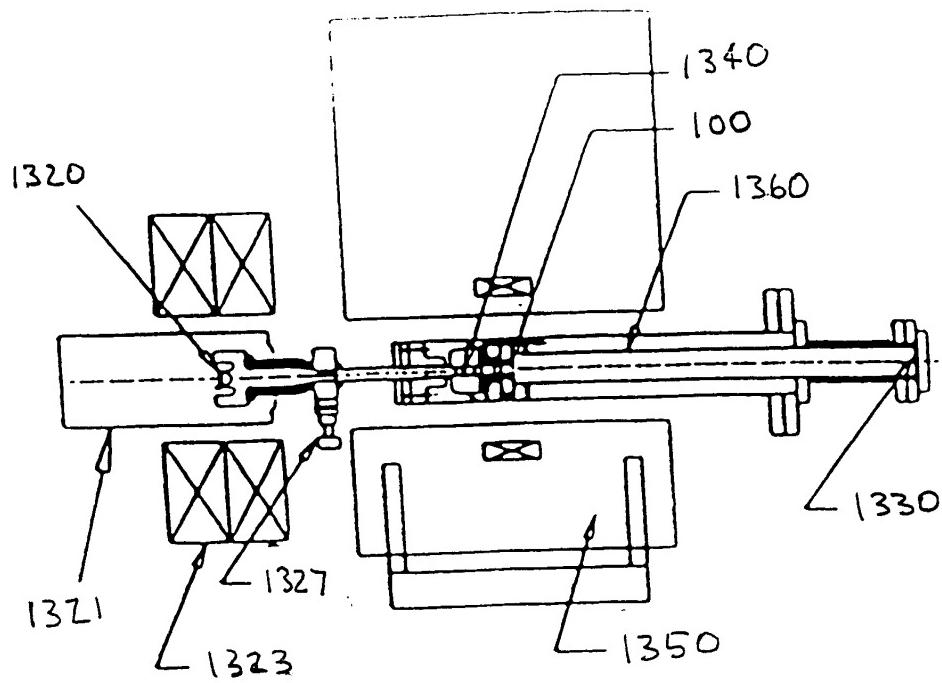


Figure 8B

Title: Vacuum Electron Device with Photonic
Bandgap Structure and Method of Use Thereof
Inventor(s): Chen et al.
Serial No. Not Yet Assigned
Atty Docket No. MIT-132 (5473/145)
Atty/Agent: Joseph B. Milstein
Express Mail Mailing Label No. EL816677502US



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FIGURE 9

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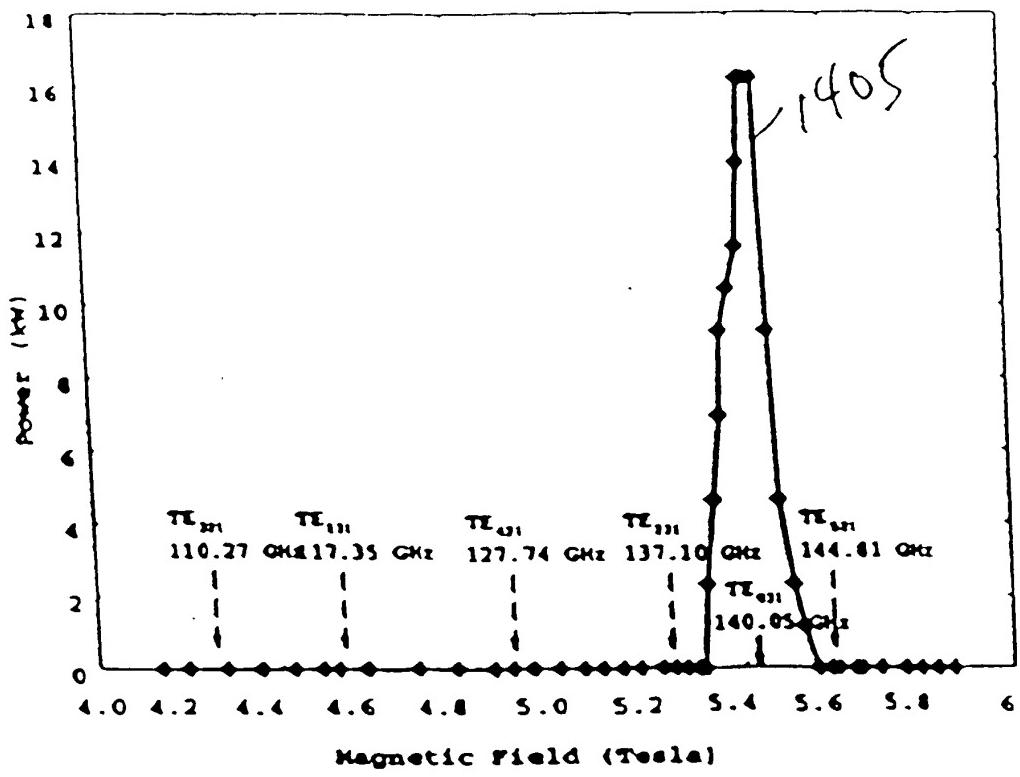


FIGURE 10